

Handheld Infrared Thermocouple

High Performance—Wide Range

OS-88000-K-1200

- ✓ -73 to 650°C (-100 to 1200°F)
- ✓ Durable Construction
- ✓ Plugs Into Any Type K Thermometer
- ✓ Fast 80 msec Response Time
- ✓ Hermetically Sealed Optics

Applications

- ✓ Non-Contact Scanning
- ✓ Quick Verification of Control System Temperature
- ✓ Ensuring Products Meet Temperature Specifications

OMEGA introduces a new level in the state of the art for temperature measurement. The OS-88000 handheld infrared probe provides low cost, non-contact measurements of temperatures from -73 to 650°C (-100 to 1200°F) that are independent of emissivity over the range 0.8 to 1.0. As with thermocouples, a chart of either millivolt output or equivalent temperatures as read on a typical thermocouple meter is provided for the full temperature range. In addition, a calibration adjustment screw allows setting of the OS-88000 for correct point reading of temperatures between -17 to 650°C (0 to 1200°F).

The probe is available in a Type K thermocouple output, with an impedance of 3 kΩ, a repeatability of better than ±1% of the readings, an ambient temperature operating range of -17 to 100°C (0 to 212°F), and a field of view of 60°.



The OS-88000-K-1200 is perfect for precise spot measurement.

Visit us online for a complete selection of meters and controllers that interface with OMEGA's Infrared thermocouples.

Use your handheld IR thermocouples with the SUPERMETER® HHM290 Pyrometer

Specifications

Temperature Range:

-73 to 650°C (-100 to 1200°F)

Automatic Emissivity Compensation System (AECS):

±1% of difference between target temperature and sensor temperature when touching surfaces of 0.8 emissivity or higher.

Accuracy: ±2% or ±1°C (2°F) + 1 digit, including AECS over temperature range

Repeatability: ±1% of reading

Time Constant: 80 msec

Field of View: 60 degrees

Minimum Spot Size: 0.45" (1.14 cm)

Spectral Response: 6.5 to 14 microns

Pot Adjustments Sensitivity:

12°C per turn @ 100°C

(22°F per turn @ 212°F)

CAUTION! – This product is not intended for medical use or use on humans

To Order

Model No.	Description
OS-88000-K-1200	Infrared thermocouple, Type K

Ordering Example: OS-88000-K-1200, infrared thermocouple.